SAB Works: Control of Water Run-Off

#### Introduction

The construction works will generally follow the guidance set out in the CEMP Appendix 5 to control the risk of surface water run-off during the construction phase.

This phasing plan will show how the site team will control the risk of surface water run off during each specific phase of the works.

#### General principles to follow

The following items will be undertaken to help control surface water run-off:

- Install control measures as noted in Appendix 5 of the CEMP, these consist of:
  - Silt traps / fencing
  - Sediment entrapment mats
  - Gulley guards
  - Temporary catchment pits
  - Temporary drainage run-off channels
- Monitor weather reports
- Follow recommendations from statutory bodies

### Sequence and Programme of the works

The following summary is generally how the works will be programmed whereby the control measures identified on this page will form part of the works:

#### Site Set Up (Starts February 2023)

- · Remove existing hedgerow
- Construct new access off Fort Road, and start widening works
- Top soil strip to entrance road and into car park

#### New Build Works (Summer 2023 - Summer 2024)

- · Top soil strip to new build area
- Top soil strip to car park & bus drop off
- Top soil strip to new MUGA and artificial pitch area
- Cut and fill to grounds including importing stone
- Car park to formation level for welfare set up
- Final surface finish to external play areas and MUGA
- Surface finish to bus drop off

#### **Drainage SAB Related Works (2023)**

- Installation of flow controls
- Construction of new attenuation tanks
- Construction of rain garden and Swale
- Installation of porous asphalt & resin bound gravel
- Formation of MUGA and artificial pitch sub-base

#### **Decant & Completion (Summer 2024)**

- · Removal of main welfare cabins
- Complete porous asphalt and permeable paving to car park
- · Works complete

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Rev	Date	Reason for Issue
-	08/04/22	First Issue
1	30/08/22	Updated drawings and programme dates
2	10/10/22	Updated drawings and programme dates
3	23/01/22	Updated drawings and programme dates

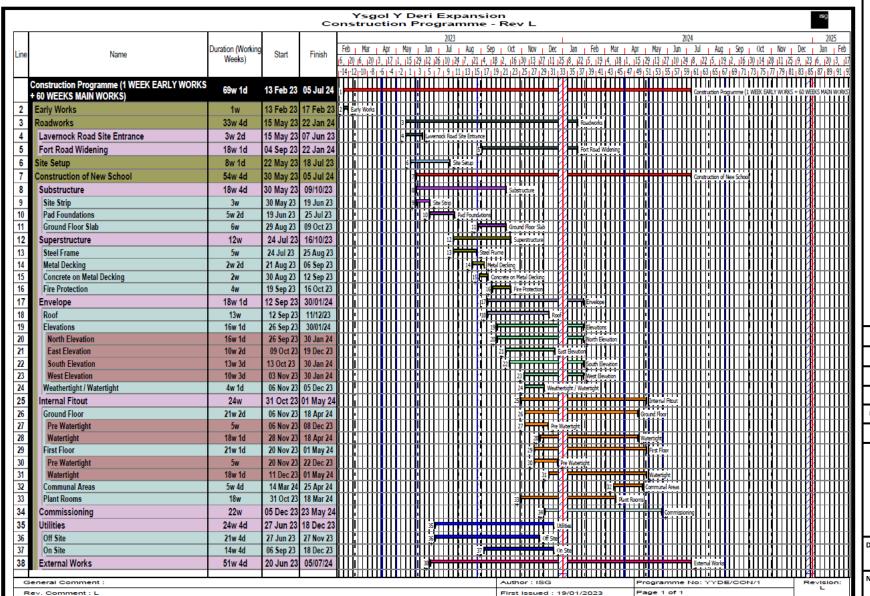


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**SAB Works: Construction Programme** 



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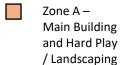
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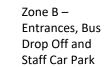
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**SAB Works: Overview of Drainage Zones** 



#### Key:





Zone C – MUGA and Artificial Pitch

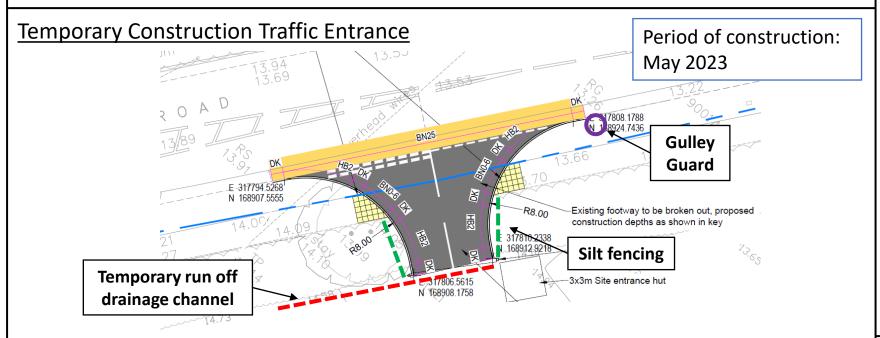
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SAB Works: Control of Water Run Off



### **Installation sequence**

- Install run-off control measures (gulley guards)
- Removal of hedgerow for width of entrance
- Stripping of top soil
- Import stone and install entrance road as per engineers \$184 design
- Installation of tarmacadam to provide clean running surface
- Use as initial contractor access and egress route during Summer 2023 construction phase
- Removal of Fort Road hedgerow and road widening works to take place from September 2023 onwards to avoid bird nesting season, with main entrance formed during this work

#### **Control Measures**

- Temporary run off drainage channel
- Use silt fencing adjacent to drainage channel and around Swale to ensure any run off is controlled and sediment collected at lowest point of area / field
- Localised bunding to restrict flow of run-off
- Temporary swales excavate and line with sediment entrapment mats if required





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23/01/22

Updated drawings and



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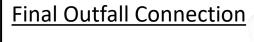
**SAB Works: Control of Water Run Off** 

Flow control repositioned

in final design so can be

used in temporary state

**Catchpit** 



Discharge to Sully Brook Period of construction: May 2023

### **Control Measures**

- Temporary drainage pipework installed to enable permanent car park system to drain correctly during construction phase
- Car park installed to permanent design with permeable surfacing
- Catchpit installed on drainage line to capture sediment

### **Installation sequence**

- Clear overgrowth and excavate for connection into highway drainage
- Install flow control and connect pipework into road gulley
- Install temporary drainage run and catchpit towards car park, connecting to S6 manhole in bus bay road
- Use drainage line for car park system during main construction works



for car park system

3 23/01/22 Updated drawings and programme dates
2 10/10/22 Updated drawings and programme dates
1 30/08/22 Updated drawings and programme dates
- 08/04/22 First Issue

**Location Plan:** 

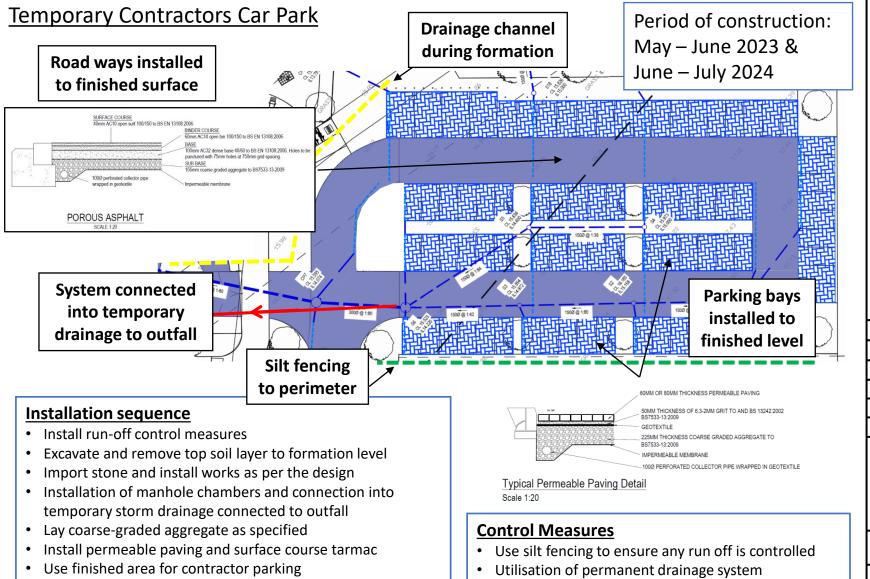
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Location Plan:



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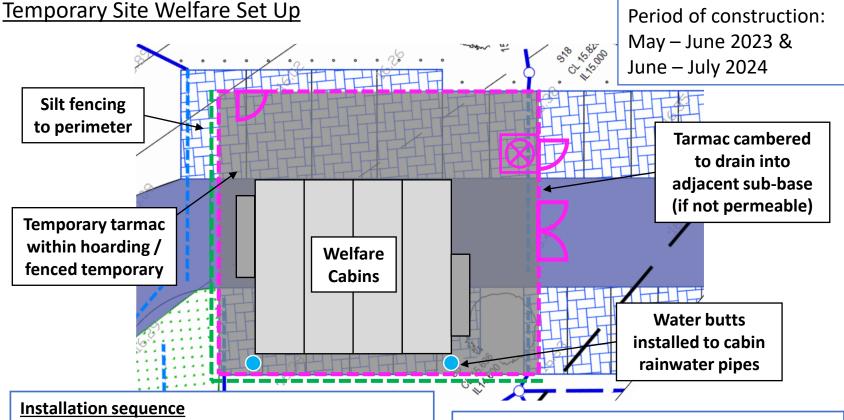


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SAB Works: Control of Water Run Off



- Install run-off control measures as part of completing adjacent car park construction
- Excavate and cast foundations for cabins, as per temporary works design
- Installation of cabins and sacrificial tarmac to welfare area
- Once project complete; cabins to be removed, foundations broken out and sub-base / finishes to car park completed as per permanent design

#### **Control Measures**

- Use silt fencing to ensure any run off into incomplete areas is sufficiently free of sediment
- Utilise permeable tarmac, or cambered construction, so run-off from welfare enters permanent sub-base construction and car park drainage system
- Water butts installed to capture rainwater which can be reused on site (ie: tool water suppression)

#### **Location Plan:**



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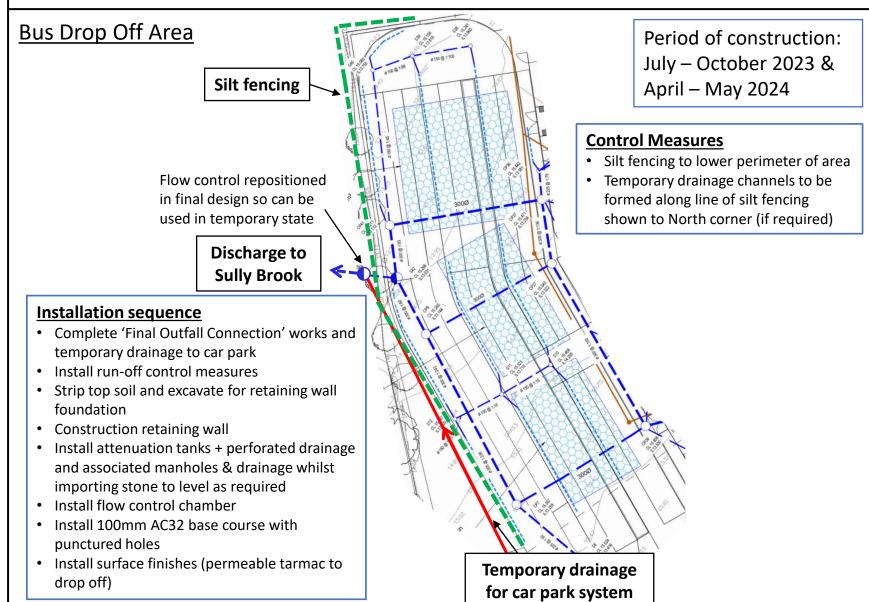


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**Location Plan:** 



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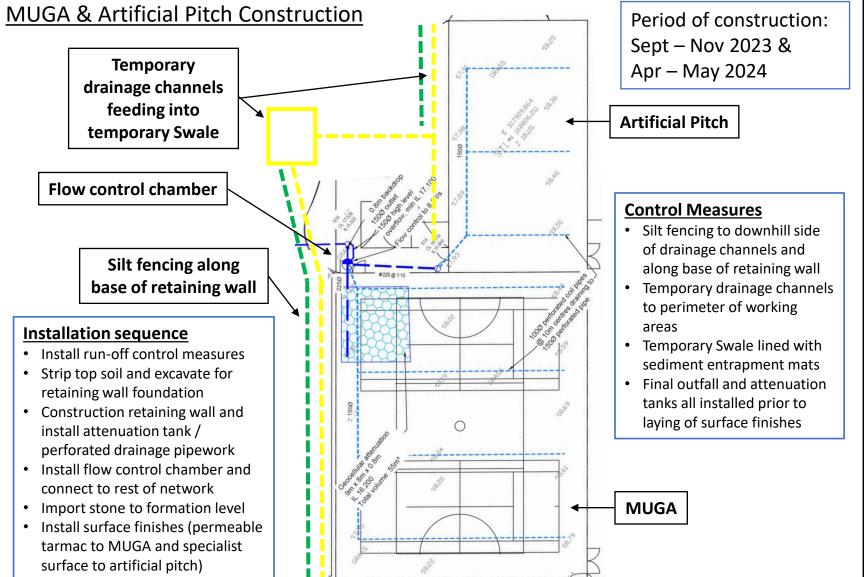
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**SAB Works: Control of Water Run Off** 



**Location Plan:** 



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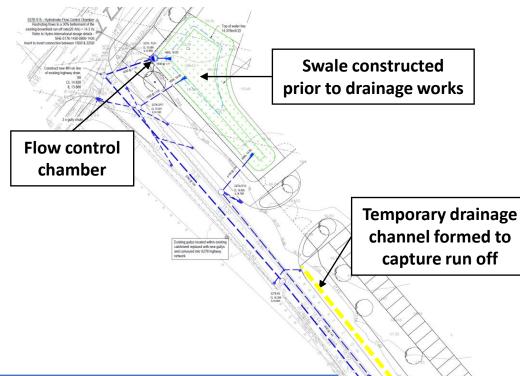


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**SAB Works: Control of Water Run Off** 

### S278 Works to Fort Road



Period of construction: Oct 2023 – Jan 2024

### **Control Measures**

- Gulley guards installed to existing road gullies during works
- Temporary drainage channels to side of working area
- Swale lined with sediment entrapment mats
- Final outfall connected prior to laying of surface finishes

**Location Plan:** 



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### **Installation sequence**

- Install run-off control measures to existing drainage
- Translocate hedgerow and cut back existing bank
- Construct Swale & install flow control chamber (FC-01)
- Install new drainage to widened section of Fort Road
- · Form widening road section to base course level
- Connect drainage to rest of network
- Install new drainage to existing Fort Road carriageway
- · Install surface finishes to full catchment area